## PATENT COOPERATION TREATY



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## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference				
102412-101	FOR FURTHER ACTIO	Preliminary E	on of Transmittal of International  Examination Report (Form PCT/IPEA/416)	
International application No.	International filing date (day)	month/year)	Priority date (day/month/year)	
PCT/US03/29569	23 September 2003 (23.09.20	003)	30 September 2002 (30.09.2002)	
International Patent Classification (IPC)	or national classification and II	PC .		
IPC(7): G02B 5/32; G03H 1/04; B05D 3	3/00; C08J 7/18; G21H 5/00 a	nd US Cl.: 359/15;	430/1,2;427/553	
Applicant				
ADVANCED INTERCONNECT TECH	INOLOGIES LIMITED	······································		
<ol> <li>This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</li> <li>This REPORT consists of a total of  sheets, including this cover sheet.</li> </ol>				
2. This REPORT consists of	a total of sheets, includ	ing this cover she	et.	
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).  These annexes consist of a total of sheets.				
3. This report contains indica	ations relating to the followi	ng items:		
	_	<b>3</b>		
I Basis of the rep	ort			
II Priority			!	
III Non-establishme	ent of report with regard to	novelty, inventive	e step and industrial applicability	
IV Lack of unity of	f invention			
V Reasoned staten applicability; cit	V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
VI Certain docume	nts cited			
VII Certain defects	in the international applicati	on	i	
VIII Certain observa				
_	•	,		
Date of submission of the demand	·	ate of completion	of this report	
		ate of completion	of this report	
02 March 2004 (02.03.2004)		January 2005 (04.	01.2005)	
Name and mailing address of the IPEA/US  Mail Stop PCT, Attn: IPEA/US		thorized officer		
Commissioner for Patents P.O. Box 1450	D	avid Nhu	DEBORAH A. THOMAS PARALEGAL SPECIALIST	
Alexandria, Virginia 22313-1450		elephone No. (5710	MATTIN ADDA A L	
Facsimile No. (703)305-3230 Telephone No. (5/102/2-1/92 Form PCT/IPEA/409 (cover sheet)(July 1998)				

INTERNATIONAL PRELIMITY EXAMINATION REPORT
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Internationa	olication No.	
PCT/US03/2	.69	

T	Posi				
		s of the report			
1.	With	regard to the elements of the international application:*			
	M	the international application as originally filed.			
	$\boxtimes$	the description:			
		pages 1-14 as originally filed			
		pages NONE , filed with the demand			
	<u> </u>	pages NONE, filed with the letter of			
	$\boxtimes$	the claims:			
		pages 15-19, as originally filed			
		pages NONE, as amended (together with any statement) under Article 19			
		pages NONE , filed with the demand pages NONE , filed with the letter of			
	$\nabla$				
		the drawings:			
		pages 1-11 , as originally filed pages NONE , filed with the demand			
		pages NONE, filed with the letter of			
		the sequence listing part of the description:			
	LJ	pages NONE , as originally filed			
		pages NONE , filed with the demand			
		pages NONE, filed with the letter of			
2.	With	regard to the language, all the elements marked above were available or furnished to this Authority is the			
	range	age in which the international application was filed, unless otherwise indicated under this item			
	Ines	e elements were available or furnished to this Authority in the following language which is:			
		the language of a translation furnished for the purposes of international search (under Rule23.1(b)).			
	Ш	the language of publication of the international application (under Rule 48.3(b)).			
		the language of the translation furnished for the purposes of international preliminary examination (under Rules			
		55.2 and/or 55.5),			
3.	With	regard to any nucleotide and/or amino acid sequence disclosed in the international application, the			
	interi	national preliminary examination was carried out on the basis of the sequence listing:			
		contained in the international application in printed form.			
	$\square$	filed together with the international application in computer readable form.			
	$\square$	furnished subsequently to this Authority in written form.			
	$\square$	furnished subsequently to this Authority in computer readable form.			
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the			
		international application as filed has been furnished.			
		The statement that the information recorded in computer readable form is identical to the written sequence listing			
		has been furnished.			
4.		The amendments have resulted in the cancellation of:			
		the description, pages NONE			
		the claims, Nos. NONE			
_		the drawings, sheets/fig NONE			
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**			
* F	* Replacement sheets which have been furnished to the receiving Office in response to an invitation and an Arial and				
	this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).  ** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.				
•		to under item 1 and annexed to this report.			

International	lication No.	
PCT/US03/		

V. Reasoned statement under Rule 66.2(a)(ii) vicitations and explanations supporting such statements	with regar	d to novelty, inventive step or industrial applicab	oility;
1. STATEMENT			
Novelty (N)	Claims	1-25	YES
ţ		NONE	NO
Inventive Step (IS)	Claima	1.05	
inventive step (13)	Claims Claims	NONE	YES NO
Industrial Applicability (IA)	Claims		YES
	Claims	NONE	_NO
2. CITATIONS AND EXPLANATIONS			
CLAIMS 1-25 MEET THE CRITERIA SET OUT IN PCT ARTICLE 33(2)-(4), BECAUSE THE PRIOR ART DO NOT TE OR FARILY SUGGEST A METHOD FOR MANUFACTURING PACKAGED SEMICONDUCTOR DEVICES COMPRISI DISPOSING A PLURALITY OF DIES ONTO A PLURALITY OF INTERCONNECTED SUBSTRATE; ELECTRICALLY CONNECTING 10 PADS ON EACH DIE IN THE PLURALITY OF DIES TO BOND SITES ON AN ASSOCIATED SUBSTRATE IN THE PLURALITY OF INTERCONNECTED SUBSTRATE; SECURING A PLURALITY OF INTERCONNECTED SUBSTRATE; SECURING A PLURALITY OF INTERCONNECTED HEAT SPREADER OVER THE PLURLITY OF DIES; OVERMOLDING THE PLURLITY OF DIES OND SITES, AND THE PLURLITY OF INTERCONNECTED HEAT SPREADER WITH A CONTINUOUS COATING MOLDING COMPOUND TO FORM A PLURLITY OF INTERCONNECTED PACKAGE PRECURSORS; AND SINGUL THE INTERCONNECTED PACKAGE PRECURSORS TO PROVIDE A PLURALITY OF PACKAGE.  NONE  NEW CITATIONS  NONE  NEW CITATIONS  NONE			

International Cation No. PCT/US03

## Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

## Continuation of Certain Documents Cited

1. Certain published documents (Rule 70.10)

Application No Publication Date

Patent No. (day/month/year)

5,905,632 05/18/1999 (18.05.1999)

5,650,663 07/22/1997 (22.07.1997)

5,367,196 11/22/1994 (22.11.1994)

Filing Date (day/month/year)
11/06/1997 (06.11.1997)
07/03/1995 (03.07.1995)
09/17/1992 (17.09.1992)

Priority date (valid claim)
(day/month/year)

None None None

2. Non-written disclosures (Rule 70.9)

Kind of non-written disclosure

None

Date of non-written disclosure
(day/month/year)
None

Date of written disclosure referring to non-written disclosure
(day/month/year)
None

Form PCT/IPEA/409 (Continuation Sheet) (July 1998)